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FIG. 1

100

110

Element
+InstanceID
+Label
+Description

120

Organization
+Name
+Domain Name

130

LogicalElement

140

ComputerSystem
+HostName
+Architecture

150

Application
+ProcessID
+Name

160

Server
+URL

FIG. 2

200

Naming rules:

210 — **Organization** - DomainName

220 — **ComputerSystem** - HostName scoped by Organization

230 — **Application** - ProcessID scoped by ComputerSystem

240 — **Server** - URL
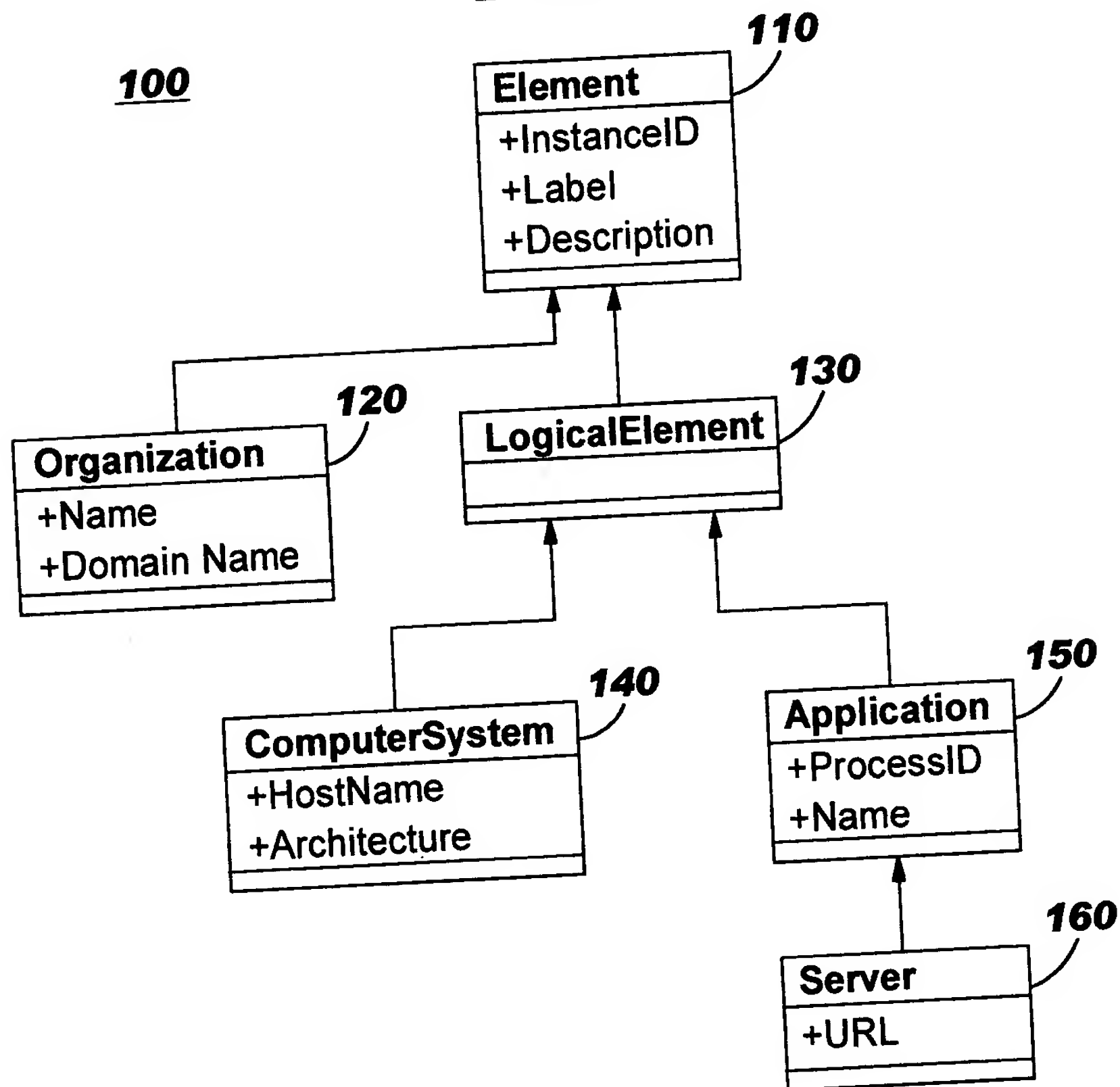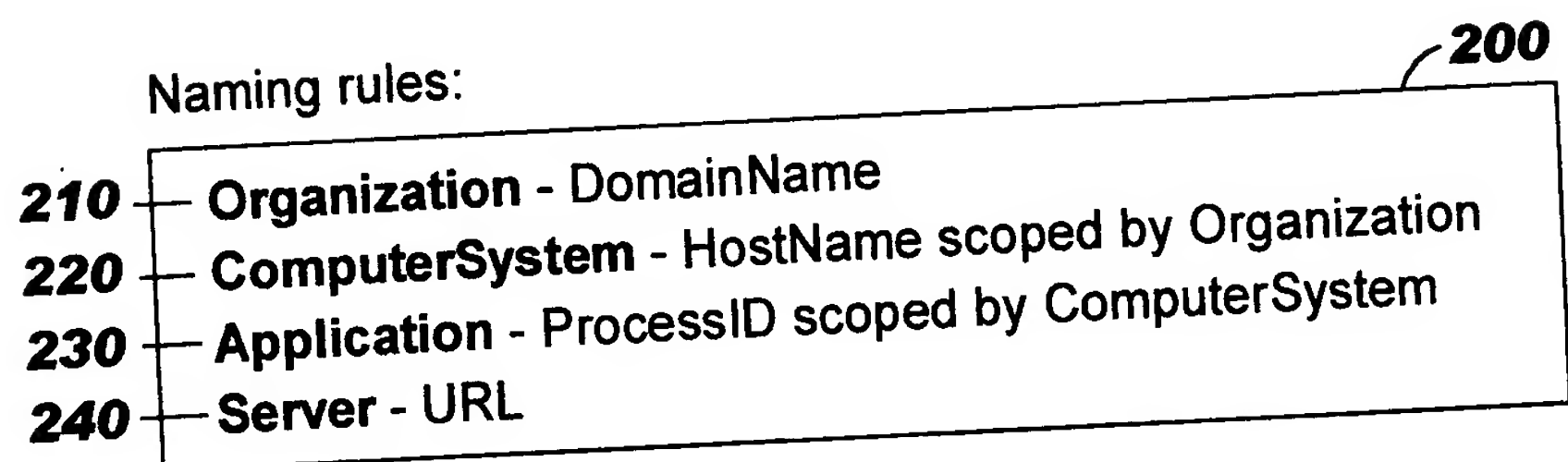
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FIG. 3A

/300

Name = IBM
DomainName = ibm.com

FIG. 3B

/350

Organization(DomainName="ibm.com")

FIG. 4A

/400

HostName = ExampleHost
Architecture = pSeries

FIG. 4B

/450

Organization(DomainName="ibm.com"),ComputerSystem(HostName="ExampleHost")

FIG. 5A

500

```
Name = EMACS
ProcessID = 16325
```

FIG. 5B

550

```
Organization(DomainName="ibm.com"),ComputerSystem(HostName="ExampleHost"),
Application(ProcessID="16325")
```
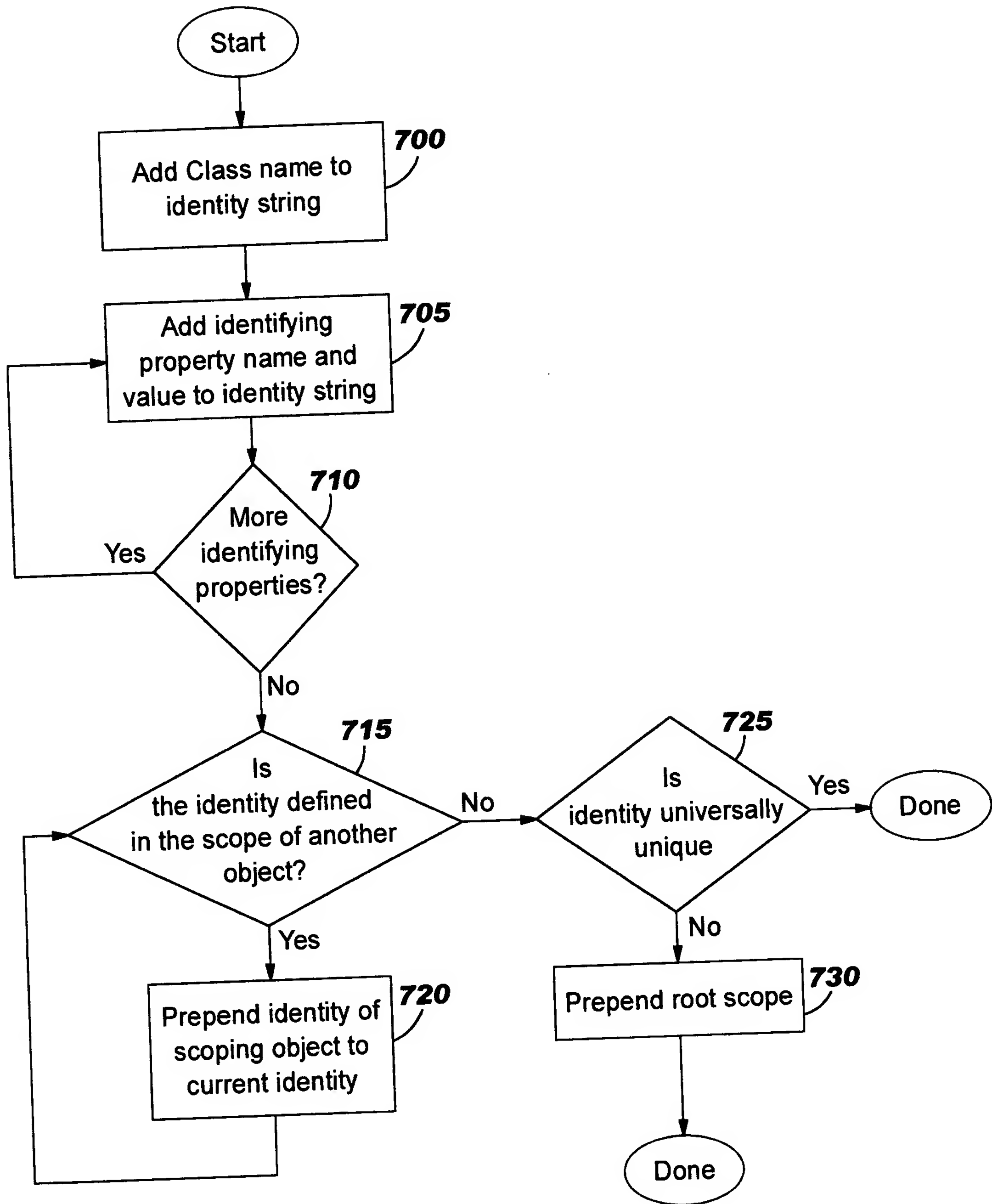
FIG. 6A

600

```
Name = Apache HTTP Server
610 ──┤URL = http://example.ibm.com:8080
```

FIG. 6B

650

```
Server(URL=http://example.ibm.com:8080)
```

FIG. 7

Start

700 Add Class name to identity string

705 Add identifying property name and value to identity string

710 More identifying properties?

Yes

No

715 Is the identity defined in the scope of another object?

No

Yes

725 Is identity universally unique

Yes

Done

No

720 Prepend identity of scoping object to current identity

730 Prepend root scope

Done

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FIG. 8

Start

800 Root scope? — Yes → **805** Resolve root scope → **810** Set current scope to root scope

815 Remove root scope from identity string

No

820 Get outermost instance from identity string

825 Look up class definition of instance

830 Get rule for constructing instance identities for class definition

835 Parse instance identity

840 Search for instance in context of current scope

845 Instance found? — No → Error

Yes

850 Set current scope to instance

855 Remove instance identity from identity string

860 More identities in identity string? — Yes

No

Done

FIG. 9

900
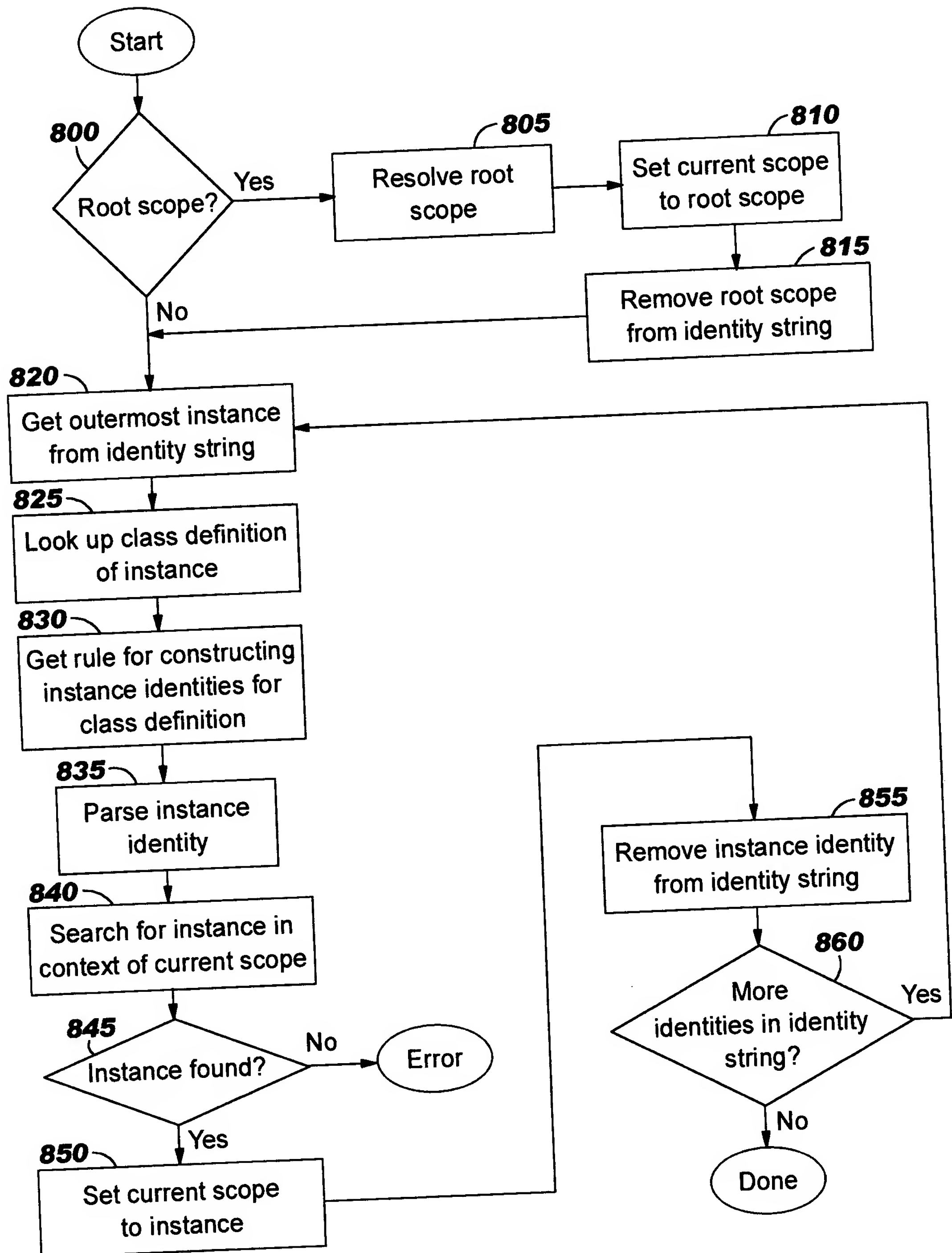
```
<?xml version="1.0" ?>

<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema">

<!-- ************************************************************** -->
<!-- The root element defines a naming rule. -->
<!-- ************************************************************** -->

<xsd:element name="NamingRule" minOccurs="0"> ~910
    <xsd:complexType>
        <xsd:sequence>
            <xsd:element name="Key" maxOccurs="unbounded"> ~920
                <xsd:complexType>
                    <xsd:attribute name="Name" type="xsd:QName" use="required"/> ~930
                </xsd:complexType>
            </xsd:element>
        </xsd:sequence>
        <xsd:attribute name="ScopingEntity" type="xsd:QName" use="optional"/> ~940
    </xsd:complexType>
</xsd:element>
</xsd:schema>
```